

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	266619	(silicon or siloxan\$ or \$20siloxane) near5 (form\$6 or produc\$6 or synthe\$6 or condens\$10) or (\$15silane or silane\$1) near5 hydroly\$	US-PGPUB; USPAT	ADJ	OFF	2007/06/25 13:56
L2	17	1 same trypsin	US-PGPUB; USPAT	ADJ	OFF	2007/06/25 13:58
L3	56	1 near10 (enzym\$ or hydrolase\$)	US-PGPUB; USPAT	ADJ	OFF	2007/06/25 14:01

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STN Columbus \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:45:04 ON 25 JUN 2007

=> fil .bec  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE ENTRY	TOTAL SESSION
0.21	0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,  
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 14:45:23 ON 25 JUN 2007  
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s silicon or siloxan? or ?siloxane  
FILE 'MEDLINE'

24157 SILICON  
1598 SILOXAN?  
3724 ?SILOXANE  
L1 27856 SILICON OR SILOXAN? OR ?SILOXANE

FILE 'SCISEARCH'

204158 SILICON  
6277 SILOXAN?  
18605 ?SILOXANE  
L2 221341 SILICON OR SILOXAN? OR ?SILOXANE

FILE 'LIFESCI'

LEFT TRUNCATION IGNORED FOR FILE 'LIFESCI'  
2686 SILICON  
70 SILOXAN?  
58 SILOXANE  
L3 2750 SILICON OR SILOXAN? OR ?SILOXANE

FILE 'BIOTECHDS'

LEFT TRUNCATION IGNORED FOR FILE 'BIOTECHDS'  
1650 SILICON  
120 SILOXAN?  
108 SILOXANE  
L4 1745 SILICON OR SILOXAN? OR ?SILOXANE

FILE 'BIOSIS'

11444 SILICON  
850 SILOXAN?  
3493 ?SILOXANE  
L5 14811 SILICON OR SILOXAN? OR ?SILOXANE

FILE 'EMBASE'

24938 SILICON  
1197 SILOXAN?  
3900 ?SILOXANE  
L6 28348 SILICON OR SILOXAN? OR ?SILOXANE

FILE 'HCAPLUS'

830309 SILICON  
98950 SILOXAN?  
117798 ?SILOXANE  
L7 958323 SILICON OR SILOXAN? OR ?SILOXANE

FILE 'NTIS'

39261 SILICON  
1144 SILOXAN?  
1024 ?SILOXANE  
L8 40319 SILICON OR SILOXAN? OR ?SILOXANE

FILE 'ESBIOBASE'  
LEFT TRUNCATION IGNORED FOR FILE 'ESBIOBASE'  
3640 SILICON  
316 SILOXAN?  
273 SILOXANE  
L9 3925 SILICON OR SILOXAN? OR ?SILOXANE

FILE 'BIOTECHNO'  
2627 SILICON  
139 SILOXAN?  
468 ?SILOXANE  
L10 3016 SILICON OR SILOXAN? OR ?SILOXANE

FILE 'WPIDS'  
344487 SILICON  
29192 SILOXAN?  
60433 ?SILOXANE  
L11 393207 SILICON OR SILOXAN? OR ?SILOXANE

TOTAL FOR ALL FILES  
L12 1695641 SILICON OR SILOXAN? OR ?SILOXANE  
Left truncation is not valid in the specified search field in the specified file. The term has been searched without left truncation.  
Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID' would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you used a truncation symbol after a punctuation mark, the system may interpret the truncation symbol as being at the beginning of a term. Implied proximity is used in search fields indexed as single words, for example, the Basic Index.

=> s l12(10a)(form? or produc? or synthe? or condens?)  
FILE 'MEDLINE'  
1554728 FORM?  
1403836 PRODUC?  
682858 SYNTHE?  
31814 CONDENS?  
L13 1364 L1 '(10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

FILE 'SCISEARCH'  
2479639 FORM?  
1992335 PRODUC?  
1153634 SYNTHE?  
119399 CONDENS?  
L14 22090 L2 (10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

FILE 'LIFESCI'  
456058 FORM?  
562346 PRODUC?  
197520 SYNTHE?  
9179 CONDENS?  
L15 254 L3 (10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

FILE 'BIOTECHDS'  
109161 FORM?  
238676 PRODUC?  
51002 SYNTHE?  
2830 CONDENS?  
L16 324 L4 (10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

FILE 'BIOSIS'  
2006485 FORM?  
2089347 PRODUC?

914062 SYNTHE?  
47161 CONDENS?  
L17 1253 L5 (10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

FILE 'EMBASE'  
1374520 FORM?  
1329339 PRODUC?  
768169 SYNTHE?  
32434 CONDENS?  
L18 1332 L6 (10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

FILE 'HCAPLUS'  
6851167 FORM?  
4520889 PRODUC?  
1013547 PRODN  
5008722 PRODUC?  
(PRODUC? OR PRODN)  
2198550 SYNTHE?  
562753 CONDENS?  
L19 135000 L7 (10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

FILE 'NTIS'  
320704 FORM?  
378526 PRODUC?  
60760 SYNTHE?  
17333 CONDENS?  
L20 4024 L8 (10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

FILE 'ESBIOBASE'  
570563 FORM?  
664425 PRODUC?  
267254 SYNTHE?  
14410 CONDENS?  
L21 558 L9 (10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

FILE 'BIOTECHNO'  
328492 FORM?  
394590 PRODUC?  
210476 SYNTHE?  
6950 CONDENS?  
L22 203 L10 (10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

FILE 'WPIDS'  
5169260 FORM?  
2548191 PRODUC?  
395685 SYNTHE?  
231678 CONDENS?  
L23 137105 L11 (10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

TOTAL FOR ALL FILES  
L24 303507 L12 (10A) (FORM? OR PRODUC? OR SYNTHE? OR CONDENS?)

=> s l24(10a) (trypsin or protease# or enzym? or hydrolase# or lipase# or pepsin or papain  
UNMATCHED LEFT PARENTHESIS '10A) (TRYPSIN'  
The number of right parentheses in a query must be equal to the  
number of left parentheses.

=> s l24(10a) (trypsin or protease# or enzym? or hydrolase# or lipase# or pepsin or  
papain)  
FILE 'MEDLINE'  
62447 TRYPSIN  
89530 PROTEASE#  
1217628 ENZYM?  
86379 HYDROLASE#

25064 LIPASE#  
11732 PEPSIN  
8224 PAPAIN  
L25       11 L13(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

FILE 'SCISEARCH'  
28846 TRYPSIN  
87451 PROTEASE#  
597801 ENZYM?  
19357 HYDROLASE#  
30548 LIPASE#  
5158 PEPSIN  
4181 PAPAIN  
L26       35 L14(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

FILE 'LIFESCI'  
11021 TRYPSIN  
30910 PROTEASE#  
248490 ENZYM?  
6213 HYDROLASE#  
5535 LIPASE#  
1470 PEPSIN  
1684 PAPAIN  
L27       5 L15(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

FILE 'BIOTECHDS'  
3725 TRYPSIN  
20027 PROTEASE#  
146692 ENZYM?  
3064 HYDROLASE#  
8875 LIPASE#  
667 PEPSIN  
912 PAPAIN  
L28       23 L16(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

FILE 'BIOSIS'  
61312 TRYPSIN  
101502 PROTEASE#  
2034572 ENZYM?  
25695 HYDROLASE#  
39974 LIPASE#  
13400 PEPSIN  
9368 PAPAIN  
L29       23 L17(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

FILE 'EMBASE'  
36984 TRYPSIN  
64996 PROTEASE#  
956772 ENZYM?  
18065 HYDROLASE#  
23345 LIPASE#  
6791 PEPSIN  
5358 PAPAIN  
L30       16 L18(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

FILE 'HCAPLUS'  
72225 TRYPSIN  
116781 PROTEASE#  
1162682 ENZYM?

27474 HYDROLASE#  
50985 LIPASE#  
21099 PEPSIN  
14870 PAPAIN  
L31       116 L19(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

FILE 'NTIS'  
399 TRYPSIN  
708 PROTEASE#  
13294 ENZYM?  
1260 HYDROLASE#  
176 LIPASE#  
50 PEPSIN  
67 PAPAIN  
L32       0 L20(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

FILE 'ESBIOBASE'  
10600 TRYPSIN  
44174 PROTEASE#  
307728 ENZYM?  
7964 HYDROLASE#  
10337 LIPASE#  
1620 PEPSIN  
1567 PAPAIN  
L33       9 L21(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

FILE 'BIOTECHNO'  
13615 TRYPSIN  
26983 PROTEASE#  
366038 ENZYM?  
6822 HYDROLASE#  
6795 LIPASE#  
1596 PEPSIN  
1844 PAPAIN  
L34       7 L22(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

FILE 'WPIDS'  
5714 TRYPSIN  
21034 PROTEASE#  
112976 ENZYM?  
2990 HYDROLASE#  
7904 LIPASE#  
1880 PEPSIN  
1795 PAPAIN  
L35       40 L23(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

TOTAL FOR ALL FILES  
L36       285 L24(10A) (TRYPSIN OR PROTEASE# OR ENZYM? OR HYDROLASE# OR LIPASE#  
          OR PEPSIN OR PAPAIN)

=> s l36 not 2005-2007/py  
FILE 'MEDLINE'  
1616001 2005-2007/PY  
          (20050000-20079999/PY)  
L37       6 L25 NOT 2005-2007/PY

FILE 'SCISEARCH'  
2880105 2005-2007/PY  
          (20050000-20079999/PY)  
L38       24 L26 NOT 2005-2007/PY

FILE 'LIFESCI'  
287104 2005-2007/PY  
L39 5 L27 NOT 2005-2007/PY

FILE 'BIOTECHDS'  
66352 2005-2007/PY  
L40 18 L28 NOT 2005-2007/PY

FILE 'BIOSIS'  
1350391 2005-2007/PY  
L41 16 L29 NOT 2005-2007/PY

FILE 'EMBASE'  
1391666 2005-2007/PY  
L42 10 L30 NOT 2005-2007/PY

FILE 'HCAPLUS'  
3241618 2005-2007/PY  
L43 82 L31 NOT 2005-2007/PY

FILE 'NTIS'  
34043 2005-2007/PY  
L44 0 L32 NOT 2005-2007/PY

FILE 'ESBIOBASE'  
836714 2005-2007/PY  
L45 6 L33 NOT 2005-2007/PY

FILE 'BIOTECHNO'  
0 2005-2007/PY  
L46 7 L34 NOT 2005-2007/PY

FILE 'WPIDS'  
2930936 2005-2007/PY  
L47 27 L35 NOT 2005-2007/PY

TOTAL FOR ALL FILES  
L48 201 L36 NOT 2005-2007/PY

=> dup rem 148  
PROCESSING COMPLETED FOR L48  
L49 130 DUP REM L48 (71 DUPLICATES REMOVED)

=> d tot

L49 ANSWER 1 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN  
TI Asymmetric synthesis of antimer chiral silicon cyan alcohol;  
stereospecific silicon cyan alcohol preparation using  
enzyme-catalyzed stereospecific asymmetric synthesis  
AU ZONG M; LI N  
AN 2004-21166 BIOTECHDS  
PI CN 1488760 14 Apr 2004

L49 ANSWER 2 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN  
TI Treatment useful for prevention or reduction of scars comprising  
application of composition containing fluid and film-forming carrier and  
hardening carrier into tangible membrane  
PI US 20040096487 A1 20040520 (200440)\* EN 7[0]  
IN STUDIN J R

L49 ANSWER 3 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN  
TI Stable corrosion prevention and improvement promoter for plant

production material spraying, has silicon oxide, calcium oxide, amorphous alumina silicate and a mineral reaction enzyme agent

PI JP 2004137311 A 20040513 (200435)\* JA 6[0]  
IN UMEZAKI J

L49 ANSWER 4 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Enzyme immobilization on porous silicon surfaces  
SO Advanced Materials (Weinheim, Germany) (2004), 16(8), 689-693  
CODEN: ADVMEW; ISSN: 0935-9648  
AU Letant, Sonia E.; Hart, Bradley R.; Kane, Staci R.; Hadi, Masood Z.; Shields, Sharon J.; Reynolds, John G.  
AN 2004:396084 HCAPLUS  
DN 141:169955

L49 ANSWER 5 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Siloxane biocatalysis  
SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2004), 45(1), 614-615  
CODEN: ACPPAY; ISSN: 0032-3934  
AU Bassindale, Alan R.; Brandstadt, Kurt F.; Lane, Thomas H.; Taylor, Peter G.  
AN 2004:234453 HCAPLUS  
DN 141:157571

L49 ANSWER 6 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Siloxane biocatalysis  
SO Abstracts of Papers, 227th ACS National Meeting, Anaheim, CA, United States, March 28-April 1, 2004 (2004), POLY-544 Publisher: American Chemical Society, Washington, D. C.  
CODEN: 69FGKM  
AU Bassindale, Alan R.; Brandstadt, Kurt F.; Lane, Thomas H.; Taylor, Peter G.  
AN 2004:229179 HCAPLUS

L49 ANSWER 7 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI New method for attachment of biomolecules to porous silicon: platform for enzyme-based chemical detection  
SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2004), 45(1), 537-538  
CODEN: ACPPAY; ISSN: 0032-3934  
AU Hart, Bradley R.; Letant, Sonia E.; Kane, Staci R.; Hadi, Masood Z.; Shields, Sharon J.; Reynolds, John G.  
AN 2004:234409 HCAPLUS  
DN 142:33789

L49 ANSWER 8 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Microfluidic biosensing systems. Part II. Monitoring the dynamic production of glucose and ethanol from microchip-immobilised yeast cells using enzymatic chemiluminescent  $\mu$ -biosensors  
SO Lab on a Chip (2004), 4(5), 488-494  
CODEN: LCAHAM; ISSN: 1473-0197  
AU Davidsson, Richard; Johansson, Bjoern; Passoth, Volkmar; Bengtsson, Martin; Laurell, Thomas; Emneus, Jenny  
AN 2004:824709 HCAPLUS  
DN 142:332040

L49 ANSWER 9 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Influence of silicate application on the sucrose synthetic enzyme activity of tomato in perlite media culture  
SO Acta Horticulturae (2004), 633(Protected Cultivation 2002: In Search of Structures, Systems and Plant Materials for Sustainable Greenhouse Production), 259-262  
CODEN: AHORA2; ISSN: 0567-7572  
AU Lee, J.-W.; Kim, Y.-C.; Kim, K.-Y.; Yun, H.-K.; Seo, T.-C.; Park, K.-W.

AN 2004:575017 HCAPLUS  
DN 142:218386

L49 ANSWER 10 OF 130 MEDLINE on STN DUPLICATE 2  
TI Ester synthesis catalyzed by Mucor miehei lipase  
immobilized on magnetic polysiloxane-polyvinyl alcohol  
particles.  
SO Applied biochemistry and biotechnology, (2004 Spring) Vol. 113-116, pp.  
189-99.  
Journal code: 8208561. ISSN: 0273-2289.  
AU Bruno Laura M; de Lima Filho Jose L; de M Melo Eduardo H; de Castro Heizir  
F  
AN 2004160136 MEDLINE

L49 ANSWER 11 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN  
TI Lipase-catalyzed ammonolysis of trimethylsilylmethyl acetate in organic  
solvent;  
yeast enzyme-catalyzed ammonolysis for use in  
silicon-containing amide synthesis  
SO BIOCATALYSIS AND BIOTRANSFORMATION; (2004) 22, 3, 183-187 ISSN:  
1024-2422  
AU PENG HS; ZONG MH; WANG JF; XU YQ  
AN 2005-01729 BIOTECHDS

L49 ANSWER 12 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Development of the enzyme immobilization method for having used the new  
carrier constructing-bridge method  
SO Chemical Sensors (2004), 20(Suppl. A), 118-120  
CODEN: KAGSEU  
AU Xu, Yitai; Amemiya, Takashi; Itoh, Kiminori  
AN 2004:719663 HCAPLUS  
DN 142:151099

L49 ANSWER 13 OF 130 MEDLINE on STN DUPLICATE 3  
TI Detection of bacteriophage infection and prophage induction in bacterial  
cultures by means of electric DNA chips.  
SO Analytical biochemistry, (2004 Jan 1) Vol. 324, No. 1, pp. 84-91.  
Journal code: 0370535. ISSN: 0003-2697.  
AU Gabig-Ciminska Magdalena; Los Marcin; Holmgren Anders; Albers Jorg; Czyz  
Agata; Hintsche Reiner; Wegrzyn Grzegorz; Enfors Sven Olof  
AN 2003574720 MEDLINE

L49 ANSWER 14 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Enzyme-catalysed siloxane bond formation  
SO (2003) No pp., given Avail.: From degree-granting institution  
From: Diss. Abstr. Int., C 2004, 65(3), 733  
AU Brandstadt, Kurt Friedrich  
AN 2005:646863 HCAPLUS  
DN 143:148823

L49 ANSWER 15 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN  
TI Multiple-emulsion enzyme system for surfactant-rich media used in, e.g.  
skin treatment, includes surfactants to respectively maintain enzyme in  
inner phase and fluid in outer phase  
PI WO 2003106607 A1 20031224 (200411)\* EN 53[2]  
RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS  
LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW  
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK  
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH  
PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN  
YU ZA ZM ZW  
AU 2003276412 A1 20031231 (200451) EN  
AU 2003276412 A8 20031231 (200562) EN

IN BECKER N T; BRECHT D J; CHRISTIANO S P; ELMS R A; FENG Q J; HAYES K Q;  
HENG M H; MAZEAUD I; SEVERANCE M K

L49 ANSWER 16 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation  
on STN

TI Enzyme-catalysed siloxane bond formation.

SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (MAR 2003) Vol. 225,  
Part 1, pp. U977-U977. MA 164-IEC.  
ISSN: 0065-7727.

AU Bassindale A R (Reprint); Brandstadt K F; Lane T H; Taylor P G

AN 2004:445025 SCISEARCH

L49 ANSWER 17 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation  
on STN

TI Synthesis of novel silicon based macromers and  
polymers by enzymatic catalysis

SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (MAR 2003) Vol. 225,  
Part 2, pp. U698-U698. MA 250-PMSE.  
ISSN: 0065-7727.

AU Kumar R (Reprint); Samuelson L A; Kumar J; Parmar V S; Watterson A C

AN 2004:233892 SCISEARCH

L49 ANSWER 18 OF 130 HCPLUS COPYRIGHT 2007 ACS on STN

TI "Sweet silicones": Biocatalytic reactions to form organo-silicon  
carbohydrate macro-mers

SO Polymer Preprints (American Chemical Society, Division of Polymer  
Chemistry) (2003), 44(2), 617-618  
CODEN: ACPPAY; ISSN: 0032-3934

AU Sahoo, Bishwabhusan; Brandstadt, Kurt F.; Lane, Thomas H.; Gross, Richard  
A.

AN 2003:658157 HCPLUS

DN 140:199513

L49 ANSWER 19 OF 130 HCPLUS COPYRIGHT 2007 ACS on STN

TI Biocatalysis of siloxane bonds

SO Polymer Preprints (American Chemical Society, Division of Polymer  
Chemistry) (2003), 44(2), 570-571  
CODEN: ACPPAY; ISSN: 0032-3934

AU Bassindale, Alan R.; Brandstadt, Kurt F.; Lane, Thomas H.; Taylor, Peter  
G.

AN 2003:658130 HCPLUS

DN 140:159515

L49 ANSWER 20 OF 130 HCPLUS COPYRIGHT 2007 ACS on STN

TI Synthesis of novel silicon-based macromers and  
polymers by enzymatic catalysis

SO PMSE Preprints (2003), 88, 429-430  
CODEN: PPMRA9; ISSN: 1550-6703

AU Kumar, Rajesh; Samuelson, Lynne, A.; Kumar, Jayant; Parmar, Virinder, S.;  
Watterson, Arthur, C.

AN 2003:222754 HCPLUS

DN 138:402555

L49 ANSWER 21 OF 130 MEDLINE on STN DUPLICATE 4

TI Enzyme-catalysed siloxane bond formation.

SO Journal of inorganic biochemistry, (2003 Aug 1) Vol. 96, No. 2-3, pp.  
401-6.  
Journal code: 7905788. ISSN: 0162-0134.

AU Bassindale Alan R; Brandstadt Kurt F; Lane Thomas H; Taylor Peter G

AN 2003355710 MEDLINE

L49 ANSWER 22 OF 130 HCPLUS COPYRIGHT 2007 ACS on STN

TI Synthesis of novel silicon based macromers and  
polymers by enzymatic catalysis

SO Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United

States, March 23-27, 2003 (2003), PMSE-250 Publisher: American Chemical Society, Washington, D. C.

CODEN: 69DSA4

AU Kumar, Rajesh; Samuelson, Lynne A.; Kumar, Jayant; Parmar, Virinder S.; Watterson, Arthur C.

AN 2003:186047 HCAPLUS

L49 ANSWER 23 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Biocatalysis of siloxane bonds

SO Abstracts of Papers, 226th ACS National Meeting, New York, NY, United States, September 7-11, 2003 (2003), POLY-237 Publisher: American Chemical Society, Washington, D. C.

CODEN: 69EKY9

AU Bassindale, Alan R.; Brandstadt, Kurt F.; Lane, Thomas H.; Taylor, Peter G.

AN 2003:637118 HCAPLUS

L49 ANSWER 24 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI (R)-Oxynitrilase-catalysed synthesis of chiral silicon-containing aliphatic (R)-ketone-cyanohydrins

SO Biotechnology Letters (2003), 25(3), 219-222

CODEN: BILED3; ISSN: 0141-5492

AU Li, Ning; Zong, Min-Hua; Liu, Chen; Peng, Hua-Song; Wu, Hua-Chang

AN 2003:103541 HCAPLUS

DN 140:4120

L49 ANSWER 25 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Enzyme-catalyzed siloxane-bond formation

SO Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), IEC-164 Publisher: American Chemical Society, Washington, D. C.

CODEN: 69DSA4

AU Bassindale, Alan R.; Brandstadt, Kurt F.; Lane, Thomas H.; Taylor, Peter G.

AN 2003:182944 HCAPLUS

L49 ANSWER 26 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 5

TI Desorption/ionization on silicon (DIOS) mass spectrometry: background and applications

SO INTERNATIONAL JOURNAL OF MASS SPECTROMETRY, (15 MAR 2003) Vol. 226, No. 1, pp. 107-116.

ISSN: 1387-3806.

AU Lewis W G; Shen Z X; Finn M G; Siuzdak G (Reprint)

AN 2003:216273 SCISEARCH

L49 ANSWER 27 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN

TI Enzyme-catalyzed siloxane bond formation.

SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (MAR 2003) Vol. 225, Part 1, pp. U62-U62. MA 0028-MTLS.

ISSN: 0065-7727.

AU Bassindale A R (Reprint); Brandstadt K F; Lanes T H; Taylor P G

AN 2004:440636 SCISEARCH

L49 ANSWER 28 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI New fire-safe polysiloxane polymers

SO Chemical and Physical Processes in Combustion (2003) 49-52

CODEN: CPPCD9; ISSN: 0277-1128

AU Schoemann, Aurelie; Westmoreland, Phillip R.; Farris, Richard J.; Kumar, Rajesh; Watterson, Arthur C.; Samuelson, Lynne

AN 2003:990850 HCAPLUS

DN 141:207726

L49 ANSWER 29 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Enzyme-catalyzed siloxane bond formation  
 SO Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), MTLS-028 Publisher: American Chemical Society, Washington, D. C.  
 CODEN: 69DSA4  
 AU Bassindale, Alan R.; Brandstadt, Kurt F.; Lane, Thomas H.; Taylor, Peter G.  
 AN 2003:184328 HCAPLUS

L49 ANSWER 30 OF 130 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 TI Enzyme-catalyzed siloxane bond formation.  
 SO Abstracts of Papers American Chemical Society, (2003) Vol. 225, No. 1-2, pp. MTLS 28. print.  
 Meeting Info.: 225th American Chemical Society (ACS) National Meeting. New Orleans, LA, USA. March 23-27, 2003. American Chemical Society.  
 ISSN: 0065-7727 (ISSN print).  
 AU Bassindale, Alan R. [Reprint Author]; Brandstadt, Kurt F.; Lane, Thomas H.; Taylor, Peter G. [Reprint Author]  
 AN 2003:369604 BIOSIS

L49 ANSWER 31 OF 130 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 TI Synthesis of novel silicon based macromers and polymers by enzymatic catalysis.  
 SO Abstracts of Papers American Chemical Society, (2003) Vol. 225, No. 1-2, pp. PMSE 250. print.  
 Meeting Info.: 225th American Chemical Society (ACS) National Meeting. New Orleans, LA, USA. March 23-27, 2003. American Chemical Society.  
 ISSN: 0065-7727 (ISSN print).  
 AU Kumar, Rajesh [Reprint Author]; Samuelson, Lynne A.; Kumar, Jayant; Parmar, Virinder S.; Watterson, Arthur C.  
 AN 2003:411824 BIOSIS

L49 ANSWER 32 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 6  
 TI Powdery face washing agent composition  
 SO Repub. Korean Kongkae Taeho Kongbo, No pp. given  
 CODEN: KRXXA7  
 IN Cha, Jin Gi; Cho, Byeong Gi  
 AN 2004:960841 HCAPLUS  
 DN 142:204203
 

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI KR 2002045300	A	20020619	KR 2000-74703	20001208

L49 ANSWER 33 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN  
 TI Polycondensation of organosilicon compounds in solution with an enzyme catalyst, used e.g. for the production of silicones and silicates, involves using lipase as the enzyme;  
 silicate and silicon production using enzyme immobilization  
 AU FRIEDRICH T  
 AN 2002-17473 BIOTECHDS  
 PI WO 2002022842 21 Mar 2002

L49 ANSWER 34 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Topical composition containing fibers and enzymes  
 SO Eur. Pat. Appl., 12 pp.  
 CODEN: EPXXDW  
 IN Chevalier, Veronique  
 AN 2002:752241 HCAPLUS  
 DN 137:268193
 

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1245222	A2	20021002	EP 2002-290650	20020314

EP 1245222 A3 20040317  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
US 2002197289 A1. 20021226 US 2002-102729 20020322

L49 ANSWER 35 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Microfluidic enzyme immunoassay using silicon microchip with immobilized  
antibodies and chemiluminescence detection  
SO Analytical Chemistry (2002), 74(13), 2994-3004  
CODEN: ANCHAM; ISSN: 0003-2700  
AU Yakovleva, Julia; Davidsson, Richard; Lobanova, Anna; Bengtsson, Martin;  
Eremin, Sergei; Laurell, Thomas; Emneus, Jenny  
AN 2002:394485 HCAPLUS  
DN 137:121742

L49 ANSWER 36 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation  
on STN DUPLICATE 7  
TI Formation of enzymatic biofilms on polymer films and  
on silicon wafers  
SO MOLECULAR CRYSTALS AND LIQUID CRYSTALS, (2002) Vol. 374, pp. 611-616.  
ISSN: 1058-725X.  
AU Pancera S M (Reprint); Petri D F S  
AN 2002:481440 SCISEARCH

L49 ANSWER 37 OF 130 MEDLINE on STN DUPLICATE 8  
TI Silicon deprivation decreases collagen formation in  
wounds and bone, and ornithine transaminase enzyme activity in  
liver.  
SO Biological trace element research, (2002 Dec) Vol. 89, No. 3, pp. 251-61.  
Journal code: 7911509. ISSN: 0163-4984.  
AU Seaborn C D; Nielsen F H  
AN 2002701084 MEDLINE

L49 ANSWER 38 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Prepolymer synthesis of polyester by using lipase as a catalyst  
SO Journal of Metals, Materials and Minerals (2002), 11(2), 38-54  
CODEN: JMMMCB; ISSN: 0857-6149  
AU Sathupunya, Mathavee; Wongkasemjit, Sujitra; Gulari, Erdogan  
AN 2002:477423 HCAPLUS  
DN 137:231443

L49 ANSWER 39 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Syntheses of enantiopure Si-centrochiral silicon-based  
muscarinic antagonists using an enantioselective enzymatic  
esterification as the key step  
SO Silicon Chemistry (2002), 1(1), 35-39  
CODEN: SCIHB4; ISSN: 1569-0660  
AU Tacke, Reinhold; Heinrich, Tilman  
AN 2002:753435 HCAPLUS  
DN 138:56006 >

L49 ANSWER 40 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation  
on STN DUPLICATE 9  
TI Conformational analysis and modeling studies of synthetic  
4-dialkylaminopyridine-siloxane oligomers with selective esterase activity  
SO JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS, (JUN 2002) Vol. 12, No.  
1-2, pp. 31-47.  
ISSN: 1053-0495.  
AU Parish C A (Reprint); Zeldin M; Pratt J  
AN 2002:968149 SCISEARCH

L49 ANSWER 41 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Immobilized lipase and reaction of organic compounds using the immobilized  
lipase  
SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

IN Kurokawa, Yoichi; Fujimoto, Masaki  
AN 2001:441100 HCAPLUS  
DN 135:42772

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001161360	A	20010619	JP 1999-350980	19991210

L49 ANSWER 42 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Enzyme electrode for use in medical measurement, foodstuffs management and environmental measurement, consists of substrate electrode provided with poly dialkyl siloxane film on which oxidoreductase is fixed

PI JP 2001208719 A 20010803 (200201)\* JA 6[3]

IN IIJIMA S; MIZUTANI F; YABUKI S

L49 ANSWER 43 OF 130 LIFESCI COPYRIGHT 2007 CSA on STN DUPLICATE 10

TI Interferometric sensing of beta -galactosidase released by recombinant E. coli responding to an endocrine disruptor, tributyltin

SO Biotechnology Letters [Biotechnol. Lett.], (20010501) vol. 23, no. 9, pp. 653-659.  
ISSN: 0141-5492.

AU Ryu, Chun-Soo; Cho, Sung M.; Kim, Byung-Woo\*

AN 2001:82890 LIFESCI

L49 ANSWER 44 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Enzymatic synthesis of enantiomerically enriched D- and L-3-silylated alanines by deracemization of DL-5-silylmethylated hydantoins

SO Tetrahedron: Asymmetry (2001), 12(1), 157-165  
CODEN: TASYE3; ISSN: 0957-4166

AU Smith, R. J.; Pietzsch, M.; Wanek, T.; Syldatk, C.; Bienz, S.

AN 2001:167359 HCAPLUS  
DN 134:367156

L49 ANSWER 45 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Method for the production of stable immobilized enzyme layers to be used as sensors and in bioreactors

SO Ger. Offen., 6 pp.  
CODEN: GWXXBX

IN Heilmann, Andreas; Kiesow, Andreas; Spohn, Uwe; Janasek, Dirk  
AN 2000:115729 HCAPLUS  
DN 132:119249

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 19835869	A1	20000217	DE 1998-19835869	19980807
	C2	20030918		

L49 ANSWER 46 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI New enzyme electrode for biosensor, useful for detecting glucose

PI EP 969282 A2 20000105 (200009)\* EN 66[36]  
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
RO SE SI

JP 2000081409	A	20000321 (200025)	JA 29
JP 2000081410	A	20000321 (200025)	JA 22
US 6280587	B1	20010828 (200151)	EN
JP 3214561	B2	20011002 (200164)	JA 29
JP 3214563	B2	20011002 (200164)	JA 22

IN MATSUMOTO T

L49 ANSWER 47 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Enzyme-catalysed esterification of acrylate or methacrylate with hydroxy-functional and/or polyoxyalkylene-modified siloxane, giving products for use, e.g. in polymer production and radiation-cured coatings

PI DE 19850507 C1 20000504 (200029)\* DE 10[0]  
EP 999230 A2 20000510 (200029) DE  
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
RO SE SI  
JP 2000139488 A 20000523 (200033) JA 8  
CA 2288384 A1 20000503 (200039) EN  
US 6288129 B1 20010911 (200154) EN  
EP 999230 B1 20030416 (200328) DE  
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
DE 59905050 G 20030522 (200341) DE  
ES 2194411 T3 20031116 (200381) ES  
IN GRUENING B; GRUNING B; HILLS G; JEFFREY H; JOSTEN W; SCHAEFER D; SILBER S;  
WEITEMEYER C

L49 ANSWER 48 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Syntheses and Properties of Silicon- and Germanium-Containing  
α-Amino Acids and Peptides: A Study on C/Si/Ge Bioisosterism  
SO Organometallics (2000), 19(18), 3486-3497  
CODEN: ORGND7; ISSN: 0276-7333  
AU Tacke, Reinhold; Merget, Markus; Bertermann, Rudiger; Bernd, Michael;  
Beckers, Thomas; Reissmann, Thomas  
AN 2000:519223 HCAPLUS  
DN 133:267128

L49 ANSWER 49 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Unnatural enantiomers of 5-azacytidine analogs: syntheses and enzymic  
properties  
SO European Journal of Medicinal Chemistry (2000), 35(11), 1011-1019  
CODEN: EJMCA5; ISSN: 0223-5234  
AU Gaubert, Gilles; Mathe, Christophe; Imbach, Jean-Louis; Eriksson, Staffan;  
Vincenzetti, Silvia; Salvatori, Daniela; Vita, Alberto; Maury, Georges  
AN 2000:894112 HCAPLUS  
DN 134:147795

L49 ANSWER 50 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Use of silicon-containing lignin products for in situ soil bioremediation  
SO Environmental Science and Pollution Control Series (2000),  
22(Bioremediation of Contaminated Soils), 699-727  
CODEN: EPCSEF  
AU Telysheva, Galina; Lebedeva, Galina; Dizhbite, Tatiana; Zaimenko, Natalya;  
Ammosova, Jana; Viesturs, Uldis  
AN 2000:859890 HCAPLUS  
DN 134:207302

L49 ANSWER 51 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Adsorption of trypsin on silica-polymethylsiloxane and  
its modified forms  
SO Ukrainskii Khimicheskii Zhurnal (Russian Edition) (2000), 66(1-2), 103-106  
CODEN: UKZHAU; ISSN: 0041-6045  
AU Denisova, T. I.; Karpenko, G. F.; Khalyavka, T. A.; Shvets, D. I.  
AN 2000:720661 HCAPLUS  
DN 134:53120

L49 ANSWER 52 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation  
on STN DUPLICATE 11  
TI Enzyme catalysis of ceramic forming: Alumina and  
silicon carbide  
SO INDUSTRIAL CERAMICS, (MAY-AUG 2000) Vol. 20, No. 2, pp. 102-109.  
ISSN: 1121-7588.  
AU Gauckler L J (Reprint); Si W; Graule T J; Baader F H; Will J  
AN 2000:877852 SCISEARCH

L49 ANSWER 53 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Enzyme catalyzed biochemical production in a  
polydimethylsiloxane microreactor

SO Proceedings of SPIE-The International Society for Optical Engineering (2000), 4177(Microfluidic Devices and Systems III), 56-64  
CODEN: PSISDG; ISSN: 0277-786X

AU Dickey, Cynthia K.; Elmore, Bill B.; Jones, Francis  
AN 2000:811299 HCAPLUS  
DN 134:262960

L49 ANSWER 54 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Sensing probe for quantitative determination of hydrogen peroxide in body of fluid or fluid-containing material

PI WO 9953301 A1 19991021 (200002)\* EN 27[1]  
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL  
OA PT SD SE SL SZ UG ZW  
W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB  
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR  
TT UA UG US UZ VN YU ZA ZW  
AU 9934915 A 19991101 (200013) EN  
US 6592746 B1 20030715 (200348) EN  
IN BAKER D A; GOUGH D; SCHMID-SCHOENBEIN G W

L49 ANSWER 55 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 12

TI Lipase-silicone biocomposites: Efficient and versatile immobilized biocatalysts

SO JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, (20 OCT 1999) Vol. 121, No. 41, pp. 9487-9496.  
ISSN: 0002-7863.

AU Gill I (Reprint); Pastor E; Ballesteros A  
AN 1999:823497 SCISEARCH

L49 ANSWER 56 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 13

TI Potential silicon-containing antifolates

SO TETRAHEDRON, (5 FEB 1999) Vol. 55, No. 6, pp. 1631-1638.  
ISSN: 0040-4020.

AU Taylor E C (Reprint); Chaudhuri R P; Watson S E  
AN 1999:116657 SCISEARCH

L49 ANSWER 57 OF 130 MEDLINE on STN DUPLICATE 14

TI Efficient enzymatic synthesis of amide with (aminomethyl)trimethylsilane.

SO Journal of bioscience and bioengineering, (1999) Vol. 87, No. 5, pp. 607-10.  
Journal code: 100888800. ISSN: 1389-1723.

AU Kawamoto T; So R S; Masuda Y; Tanaka A  
AN 2005556843 MEDLINE

L49 ANSWER 58 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Improving wool yarn quality

SO Melliand Textilberichte (1999), 80(6), 540-543, E142-E144  
CODEN: MTIRDL; ISSN: 0341-0781

AU Dobel, H.  
AN 1999:354824 HCAPLUS  
DN 131:32940

L49 ANSWER 59 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 15

TI Enzymatic synthesis of silicon-containing dipeptides with 3-trimethylsilylalanine

SO APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (APR 1999) Vol. 51, No. 4, pp. 470-473.  
ISSN: 0175-7598.

AU Ishikawa H; Yamanaka H; Kawamoto T; Tanaka A (Reprint)  
AN 1999:342842 SCISEARCH

L49 ANSWER 60 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation  
on STN DUPLICATE 16

TI The influence of the chemistry of an organosilica surface on the  
adsorption of proteins from water-salt solutions

SO ADSORPTION SCIENCE & TECHNOLOGY, (1999) Vol. 17, No. 3, pp. 139-145.  
ISSN: 0263-6174.

AU Denisova T I (Reprint); Karpenko G F; Khalyavka T A; Shvets D I

AN 1999:607625 SCISEARCH

L49 ANSWER 61 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Use of siloxane polymer for constructing amperometric enzyme sensors

SO Proceedings - Electrochemical Society (1999), 99-23 (Chemical Sensors IV),  
93-98

CODEN: PESODO; ISSN: 0161-6374

AU Mizutani, Fumio; Yabuki, Soichi; Iijima, Seiichiro

AN 1999:533479 HCAPLUS

DN 131:308503

L49 ANSWER 62 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Features of protein adsorption by silicopolymethylsiloxane sorbents

SO Ukrainskii Biokhimicheskii Zhurnal (1999), 71(2), 46-50

CODEN: UBZHD4; ISSN: 0201-8470

AU Karpenko, G. F.; Denisova, T. I.; Khalyavka, T. A.; Shvets, D. I.

AN 1999:720527 HCAPLUS

DN 132:47181

L49 ANSWER 63 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Enzyme catalysis of ceramic forming: alumina and  
silicon carbide

SO Advances in Science and Technology (Faenza, Italy) (1999), 15 (Ceramics:  
Getting into the 2000's, Pt. C), 15-40

CODEN: ASETE5

AU Gauckler, L. J.; Si, W.; Graule, T. J.; Baader, F. H.; Will, J.

AN 1999:661115 HCAPLUS

DN 132:67698

L49 ANSWER 64 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 17

TI Biosensor production method.

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

IN Saito, Atsushi; Saito, Soichi

AN 1998:712193 HCAPLUS

DN 130:22492

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI JP 10293112	A	19981104	JP 1997-116474	19970418
JP 3102378	B2	20001023		

L49 ANSWER 65 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Determination of DNA synthesizing enzyme activity  
using DNA synthesis on silicon support and  
ellipsometry

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

IN Kondo, Seiji

AN 1998:68415 HCAPLUS

DN 128:138031

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI JP 10023900	A	19980127	JP 1996-179221	19960709

L49 ANSWER 66 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Granular detergent composition, used for washing clothes - comprises

surfactant, builder, particulate foam control agent, hydrated magnesium sulphate, protease enzyme and cellulase enzyme  
 PI WO 9845395 A1 19981015 (199847)\* EN 30[0]  
 W: BR CA CN JP MX US  
 US 6169063 B1 20010102 (200103) EN  
 IN KVIETOK F A; NORMAN W I; SWIFT R A; VARADARAJAN J

L49 ANSWER 67 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Treatment of refuse using group of effective microorganisms - comprises collecting food residue (refuse), crushing the residue, adjusting the temperature, mixing bio-balance with the refuse, pelletising and bagging  
 PI JP 10015526 A 19980120 (199813)\* JA 5[1]  
 IN SAITO K

L49 ANSWER 68 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN

TI Method for growing large crystals of biopolymers such as proteins and nucleic acids;  
 enzyme, protein, RNA or DNA crystallization on silicon semiconductor element for biosensor construction  
 AU Sanjoh A  
 AN 1998-03768 BIOTECHDS  
 PI WO 9749845 31 Dec 1997

L49 ANSWER 69 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Skin cleansers or other products containing enzymes and stabilizers  
 SO Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 IN Gagnebien, Didier  
 AN 1997:265338 HCAPLUS  
 DN 126:255277

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09040544	A	19970210	JP 1996-194927	19960724
JP 3108631	B2	20001113		
FR 2737115	A1	19970131	FR 1995-9027	19950725
FR 2737115	B1	19970822		
EP 759293	A1	19970226	EP 1996-401451	19960701
EP 759293	B1	19981007		
R: DE, ES, FR, GB, IT				
ES 2126368	T3	19990316	ES 1996-401451	19960701
BR 9604011	A	19980422	BR 1996-4011	19960724
US 5830449	A	19981103	US 1996-686922	19960724

L49 ANSWER 70 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI A solid pharmaceutical composition providing improved oral bioavailability for HIV protease inhibitors  
 SO U.S., 18 pp., Cont.-in-part of U.S. Ser. No. 267,273, abandoned.  
 CODEN: USXXAM  
 IN Al-razzak, Laman A.; Marsh, Kennan C.; Pyter, Richard A.  
 AN 1996:610346 HCAPLUS  
 DN 125:301598

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5559158	A	19960924	US 1994-297004	19940831
CA 2167413	A1	19950413	CA 1994-2167413	19940909
WO 9509614	A1	19950413	WO 1994-US10096	19940909
W: AU, CA, JP, KR				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9477229	A	19950501	AU 1994-77229	19940909
AU 685509	B2	19980122		
EP 721330	A1	19960717	EP 1994-928043	19940909
EP 721330	B1	20010328		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 09503501	T	19970408	JP 1994-510810	19940909

AT 200023	T	20010415	AT 1994-928043	19940909
ES 2156904	T3	20010801	ES 1994-928043	19940909
PT 721330	T	20010928	PT 1994-928043	19940909
IL 110915	A	19991222	IL 1994-110915	19940911
US 5610193	A	19970311	US 1996-650261	19960522
GR 3036091	T3	20010928	GR 2001-400936	20010619

L49 ANSWER 71 OF 130 HCPLUS COPYRIGHT 2007 ACS on STN  
 TI UV polymerizable enzyme paste for the production of biosensors  
 SO Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

IN Rohm, Ingrid; Bilitewski, Ursula  
 AN 1996:161243 HCPLUS

DN 124:197717

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 691408	A1	19960110	EP 1995-110563	19950706
EP 691408	B1	20001108		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
DE 4424179	A1	19960111	DE 1994-4424179	19940708
DE 4424179	C2	19980910		
AT 197476	T	20001111	AT 1995-110563	19950706
ES 2152348	T3	20010201	ES 1995-110563	19950706
PT 691408	T	20010228	PT 1995-110563	19950706
GR 3035345	T3	20010531	GR 2001-400170	20010201

L49 ANSWER 72 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN

TI Dietary silicon affects some collagen synthesizing enzymes in rats.

SO FASEB JOURNAL, (8 MAR 1996) Vol. 10, No. 3, pp. 4526-4526.  
 ISSN: 0892-6638.

AU Seaborn C D (Reprint); Nielsen F H  
 AN 1996:212701 SCISEARCH

L49 ANSWER 73 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 18

TI Design and implementation of a microchemistry analyzer

SO PURE AND APPLIED CHEMISTRY, (OCT 1996) Vol. 68, No. 10, pp. 1837-1841.  
 ISSN: 0033-4545.

AU Peled N (Reprint)  
 AN 1996:796333 SCISEARCH

L49 ANSWER 74 OF 130 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

TI Dietary silicon affects some collagen synthesizing enzymes in rats.

SO FASEB Journal, (1996) Vol. 10, No. 3, pp. A784.  
 Meeting Info.: Experimental Biology 96, Part II. Washington, D.C., USA.  
 April 14-17, 1996.  
 CODEN: FAJOEC. ISSN: 0892-6638.

AU Seaborn, C. D. [Reprint author]; Nielsen, F. H.  
 AN 1996:211654 BIOSIS

L49 ANSWER 75 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN

TI A biosensor array based on polyaniline

SO ANALYTICAL CHEMISTRY, (1 MAR 1996) Vol. 68, No. 5, pp. 779-783.  
 ISSN: 0003-2700.

AU Sangodkar H (Reprint); Sukeerthi S; Srinivasa R S; Lal R; Contractor A Q  
 AN 1996:173441 SCISEARCH

L49 ANSWER 76 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 19

TI Micromachined glucose sensor

SO BIOSENSORS & BIOELECTRONICS, (1996) Vol. 11, No. 1-2, pp. 187-190.  
 ISSN: 0956-5663.  
 AU Steinkuhl R (Reprint); Dumschat C; Sundermeier C; Hinkers H; Renneberg R;  
 Cammann K; Knoll M  
 AN 1996:88162 SCISEARCH

L49 ANSWER 77 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Glucose and urea measurement using micromachined open tubular heterogenous  
 enzyme reactors  
 SO DECHEMA Monographien (1996), 132(Microsystem Technology for Chemical and  
 Biological Microreactors), 125-37  
 CODEN: DMDGAG; ISSN: 0070-315X  
 AU Strike, D. J.; Thiebaud, P.; Arquint, P.; Koudelka-Hep, M.; De Rooij, N.  
 F.; Meijerink, M. G. H.  
 AN 1996:210517 HCAPLUS  
 DN 125:52598

L49 ANSWER 78 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Method for immobilizing lipases in hydrophobic silicon oxide matrixes and  
 use of the immobilized enzyme for hydrolysis or synthesis of esters and  
 transesterification  
 SO Ger. Offen., 12 pp.  
 CODEN: GWXXBX  
 IN Reetz, Manfred T.; Simpelkamp, Joerg; Zonta, Albin  
 AN 1995:994641 HCAPLUS  
 DN 124:49503

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4408152	A1	19950914	DE 1994-4408152	19940311
EP 676414	A1	19951011	EP 1995-103126	19950304
EP 676414	B1	19991020		
R: AT, BE, CH, DE, DK, ES, FR, GB, IE, IT, LI, LU, NL, SE				
AT 185816	T	19991115	AT 1995-103126	19950304
ES 2137388	T3	19991216	ES 1995-103126	19950304
CA 2144218	A1	19950912	CA 1995-2144218	19950308
US 5817493	A	19981006	US 1995-401733	19950309
JP 07274964	A	19951024	JP 1995-52392	19950313

L49 ANSWER 79 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN  
 TI Enzymatic synthesis of (S)-(-)-1-(2-thienyl)propyl acetate;  
     using Pseudomonas cepacia lipase  
 SO Tetrahedron Asymmetry; (1995) 6, 9, 2139-42  
 CODEN: 8723P ISSN: 0957-4166  
 AU Kang S K; Jeon J H; Yamaguchi T; Kim J S; Ko B S  
 AN 1996-04037 BIOTECHDS

L49 ANSWER 80 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Lipase immobilized by sol-gel technique in layers  
 SO Collection of Czechoslovak Chemical Communications (1995), 60(9), 1573-7  
 CODEN: CCCCAK; ISSN: 0010-0765  
 AU Kuncova, Gabriela; Guglielmi, Massimo; Dubina, Pavel; Safar, Bohuslav  
 AN 1995:1002307 HCAPLUS  
 DN 124:49469

L49 ANSWER 81 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN  
 TI Enantioselective synthesis of several 1-O-beta-D-glucosides using  
     almond beta-glucosidase (E.C. 3.2.1.21);  
     butyric acid-N-butyl-amide-O-glucoside, butyric acid ethyl  
     ester-O-glucoside and trimethylsilylethyl-O-glucoside production  
 SO Biotechnol.Lett.; (1995) 17, 11, 1169-74  
 CODEN: BILED3 ISSN: 0141-5492  
 AU Fischer L; Bromann R; Wagner F  
 AN 1996-00428 BIOTECHDS

L49 ANSWER 82 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation

DUPLICATE 20

TI on STN  
 ENZYMATICAL GRAFTING OF AMYLOSE FROM POLY(DIMETHYLSILOXANES)

SO MACROMOLECULES, (2 JAN 1995) Vol. 28, No. 1, pp. 17-24.

ISSN: 0024-9297.

AU VONBRAUNMUHL V (Reprint); JONAS G; STADLER R

AN 1995:50533 SCISEARCH

L49 ANSWER 83 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Preparation of thin film electronic devices - by arranging two or more biological high polymers which form two-dimensional arrangement on interface and transferring to solid phase

PI JP 06287536 A 19941011 (199445)\* JA 8[0]

IN MATSUDA H; MORIKAWA Y; OYAMA J; TAKEDA T

L49 ANSWER 84 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 21

TI INCREASING GLUCOSE DETERMINATION RANGE BY FLOW-INJECTION ANALYSIS (FIA) USING GLUCOSE-OXIDASE IMMOBILIZED ON POLYANILINE

SO BIOTECHNOLOGY TECHNIQUES, (FEB 1994) Vol. 8, No. 2, pp. 133-136.

ISSN: 0951-208X.

AU LEITE V (Reprint); DASILVA V L; AZEVEDO W M; MELO E H M; LIMA J L

AN 1994:157089 SCISEARCH

L49 ANSWER 85 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Redox polymer-modified enzyme electrode for the electrochemical regeneration of coenzyme

SO U.S., 18 pp.

CODEN: USXXAM

IN Skotheim, Terje; Okamoto, Yoshiyuki; Gorton, Lo G.; Lee, Hung Sui; Hale, Paul

AN 1994:101242 HCAPLUS

DN 120:101242

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI US 5264092	A	19931123	US 1991-770310	19911002

L49 ANSWER 86 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Glucose detecting device for measurement of glucose intensity - comprises working electrode of conductive base formed by supporting electron moving anchored silicon compsn. and glucose oxidase containing carbon@ paste, etc.

PI JP 05093707 A 19930416 (199320)\* JA 9[9]

JP 3032593 B2 20000417 (200024) JA 9

IN KOYAMA N; SHIMOMURA T

L49 ANSWER 87 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN

TI FORMATION AND ENZYMATICAL MODIFICATION OF A SILICON-BOUND LIPID MONOLAYER

SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (22 AUG 1993) Vol. 206, Part 2, pp. 203-POLY.

ISSN: 0065-7727.

AU GABER B P (Reprint); PEEK B M; TURNER D C; BRANDOW S L; LEACHSCAMPAVIA D

AN 1993:478537 SCISEARCH

L49 ANSWER 88 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Formation and enzymic modification of a silicon-bound lipid monolayer

SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1993), 34(2), 108-9

CODEN: ACPPAY; ISSN: 0032-3934

AU Gaber, Bruce Paul; Peek, Brian M.; Turner, David C.; Brandow, Susan L.; Leach-Scampavia, Deborah

AN 1994:62220 HCAPLUS

DN 120:62220

L49 ANSWER 89 OF 130 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation  
on STN DUPLICATE 22

TI FORMATION OF SILICON-CARBIDE FROM RICE HUSKS USING  
ENZYMATIC METHODS FOR CARBON CONTROL

SO BIORESOURCE TECHNOLOGY, (1993) Vol. 44, No. 1, pp. 47-51.  
ISSN: 0960-8524.

AU MIZUKI E (Reprint); OKUMURA S; SAITO H; MURAO S  
AN 1993:127197 SCISEARCH

L49 ANSWER 90 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN

TI Formation and enzymatic modification of a  
silicon-bound lipid monolay er;  
using phospholipase-C (conference abstract)

SO Abstr.Pap.Am.Chem.Soc.; (1993) 206 Meet., Pt.2, ORGN203  
CODEN: ACSRAL

AU Gaber B P; Peek B M; Turner D C; Brandow S L; Leach-Scampavia D  
AN 1993-11767 BIOTECHDS

L49 ANSWER 91 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Inorganic based enzyme carrier and immobilized enzymes  
SO Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

IN Bonse, Dirk; Schindler, Hubert; Mueller, Hans Joerg  
AN 1992:168970 HCAPLUS

DN 116:168970

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 469494	A2	19920205	EP 1991-112667	19910727
	EP 469494	A3	19920513		
	EP 469494	B1	19950125		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
	DE 4024491	A1	19920206	DE 1990-4024491	19900802
	ZA 9105221	A	19920429	ZA 1991-5221	19910705
	HU 61589	A2	19930128	HU 1991-2512	19910726
	HU 209857	B	19941128		
	JP 04229175	A	19920818	JP 1991-189685	19910730
	US 5229284	A	19930720	US 1991-737983	19910730
	AU 9181467	A	19920206	AU 1991-81467	19910731
	AU 6377114	B2	19930603		
	CA 2048317	A1	19920203	CA 1991-2048317	19910801
	FI 9103663	A	19920203	FI 1991-3663	19910801
	FI 99026	B	19970613		
	FI 99026	C	19970925		
	KR 224282	B1	19991015	KR 1991-13433	19910802

L49 ANSWER 92 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN

TI Immobilization of flavoproteins on silicon: effect of cross-linker chain  
length on enzyme activity;  
crosslinker chain length effect on immobilized choline-oxidase and  
glucose-oxidase activity

SO Biosensors Bioelectron.; (1992) 7, 5, 367-73

AU Rusin K M; Fare T L; \*Stemple J Z

AN 1992-09963 BIOTECHDS

L49 ANSWER 93 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN

TI Biosensor for assaying organic compound;  
includes immobilized Trichosporon cutaneum or Pseudomonas putida in a  
layer over semiconducting, oxygen sensitive element, for measuring  
BOD, etc.

AN 1992-07334 BIOTECHDS

PI DD 294798 10 Oct 1991

L49 ANSWER 94 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Enzyme immobilization on super fine inorganic particles  
 SO Jpn. Kokai Tokkyo Koho, 3 pp.  
 CODEN: JKXXAF  
 IN Koga, Naoki; Suzuki, Shigemi  
 AN 1991:651034 HCAPLUS  
 DN 115:251034  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI JP 03087183 A 19910411 JP 1989-226175 19890831

L49 ANSWER 95 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Vehicles for sustained-release pharmaceutical formulations  
 SO Eur. Pat. Appl., 22 pp.  
 CODEN: EPXXDW  
 IN Aguadisch, Louis Michel Jaques; Grisoni, Bernard Francis; Etienne, Alain  
 AN 1991:478936 HCAPLUS  
 DN 115:78936  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI EP 425154 A1 19910502 EP 1990-311278 19901016  
 EP 425154 B1 19930915  
 R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE  
 FR 2653337 A1 19910426 FR 1989-13818 19891023  
 FR 2653337 B1 19920207  
 ES 2044451 T3 19940101 ES 1990-311278 19901016  
 CA 2027865 A1 19910424 CA 1990-2027865 19901017  
 BR 9005223 A 19910917 BR 1990-5223 19901017  
 HU 69395 A2 19950928 HU 1990-6525 19901020  
 AU 9064863 A 19910426 AU 1990-64863 19901022  
 AU 639947 B2 19930812  
 JP 03167116 A 19910719 JP 1990-285678 19901023

L49 ANSWER 96 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN  
 TI Fluorescent probe for detecting analyte in fluid - comprises poly(di:methyl siloxane) matrix containing 9,10-di:phenyl-anthracene  
 PI US 5034189 A 19910723 (199132)\* EN  
 IN COX M E; PARKER J W

L49 ANSWER 97 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Glutamate biosensors based on electrical communication between L-glutamate oxidase and a flexible redox polymer  
 SO Analytical Letters (1991), 24(3), 345-56  
 CODEN: ANALBP; ISSN: 0003-2719  
 AU Hale, Paul D.; Lee, Hung Sui; Okamoto, Yoshi; Skotheim, Terje A.  
 AN 1991:445313 HCAPLUS  
 DN 115:45313

L49 ANSWER 98 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI An immobilized enzyme electrode containing pH buffer and permeable membrane specific to oxygen  
 SO Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 IN Saito, Atsushi  
 AN 1991:203139 HCAPLUS  
 DN 114:203139  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI JP 02287148 A 19901127 JP 1989-107202 19890428  
 JP 08020409 B 19960304  
 US 5118404 A 19920602 US 1991-660911 19910227

L49 ANSWER 99 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Electrode coated with conductive diamond layer and enzyme biosensor containing the electrode

SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 IN Ito, Toshimichi  
 AN 1991:139397 HCAPLUS  
 DN 114:139397  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI JP 02266253 A 19901031 JP 1989-88907 19890407  
 JP 2767124 B2 19980618

L49 ANSWER 100 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN  
 TI Carrier-enzyme complexes of varying hydrophobicity production - using synthetic zeolite of varying silicon to aluminium ratio, pref. faujasite(s)  
 PI DD 284248 A 19901107 (199115)\* DE  
 IN GWENNER C; HEINRITZ B; JERSCHKWIT H; KONIECZNY B; LOHSE U; SCHNEIDER J; STAHL H; THIEM M

L49 ANSWER 101 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Proteolytic degradation of fibrinogen layers adsorbed on hydrophilic and hydrophobic surfaces  
 SO Colloids and Surfaces (1990), 44, 51-60  
 CODEN: COSUD3; ISSN: 0166-6622  
 AU Welin-Klintstroem, Stefan; Wikstroem, Maude; Askendal, Agneta; Elwing, Hans; Lundstroem, Ingemar; Karlsson, Jan Olof; Renvert, Stefan  
 AN 1990:212802 HCAPLUS  
 DN 112:212802

L49 ANSWER 102 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN  
 TI pH sensor and glucose sensor;  
     based on field-effect transistor; glucose-oxidase immobilization;  
     enzyme electrode; glucose analysis  
 AN 1989-13702 BIOTECHDS  
 PI JP 01176934 13 Jul 1989

L49 ANSWER 103 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN  
 TI Macroporous silica gel production from emulsified poly:alkoxy-siloxane - by controlled ammonolysis, useful e.g. as adsorbent or enzyme carrier  
 PI DE 3917629 A 19891214 (198951)\* DE 3[0]  
 DD 283040 A 19901003 (199110) DE  
 IN EPPERT G; SCHINKE I

L49 ANSWER 104 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Influence of immobilization technique on the quality of immobilized enzyme products based on a porous silicon dioxide carrier  
 SO Enzyme and Microbial Technology (1989), 11(1), 26-8  
 CODEN: EMTED2; ISSN: 0141-0229  
 AU Soerensen, Jens Erik; Emborg, Claus  
 AN 1989:91256 HCAPLUS  
 DN 110:91256

L49 ANSWER 105 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Functionalized siloxane-modified solids for HPLC packings  
 SO Jpn. Kokai Tokkyo Koho, 46 pp.  
 CODEN: JKXXAF  
 IN Kutsuna, Yutaka; Suhara, Tsuneo; Fukui, Hiroshi; Nakano, Masakyo; Ogawa, Takashi; Nakada, Okitsugu; Otsu, Yutaka  
 AN 1988:632404 HCAPLUS  
 DN 109:232404  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI JP 63171678 A 19880715 JP 1987-218 19870106

JP 2573936

B2 19970122

L49 ANSWER 106 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Catalyst for e.g. deodorising waste water or air - obtd. by mixing fine powder of carbon, silicon, alumina and enzyme and calcining  
PI JP 63054945 A 19880309 (198816)\* JA 3[0]  
IN SAKAI S

L49 ANSWER 107 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Inosine sensor based on an amorphous silicon ISFET.  
SO Analytical Letters (1988), 21(10), 1785-800  
CODEN: ANALBP; ISSN: 0003-2719  
AU Gotoh, Masao; Tamiya, Eiichi; Seki, Atsushi; Shimizu, Isamu; Karube, Isao  
AN 1988:628899 HCAPLUS  
DN 109:228899

L49 ANSWER 108 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Process for recycling of phase-forming liquids of multi-phase aqueous systems  
SO U.S., 7 pp. Cont.-in-part of U.S. Ser. No. 728,242, abandoned.  
CODEN: USXXAM  
IN Ananthapadmanabhan, Kavssery P.; Goodard, Errol D.  
AN 1989:611539 HCAPLUS  
DN 111:211539

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI US 4690892	A	19870901	US 1986-828656	19860212

L49 ANSWER 109 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Poly-yne polymers - contains platinum and silicon in polymer chain and can be used in production of enzyme-fixing membrane  
PI JP 62050332 A 19870305 (198715)\* JA 6[0]  
IN SHIINA K; SONOGASHIRA K

L49 ANSWER 110 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN  
TI Effect of oils and fatty acids on the growth and the synthesis of enzymes in Thermoactinomyces vulgaris: VI. Studies on the mode of action of oil; effect of rapeseed oil and silicon oil on protease and alpha-amylase biosynthesis, starch hydrolysis etc.  
SO Acta Biotechnol.; (1987) 7, 1, 39-47  
CODEN: ACBTDD

AU Leuchtenberger A; Jakovleva M B; Ruttlöff H; Loginova L G  
AN 1987-09342 BIOTECHDS

L49 ANSWER 111 OF 130 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN  
TI Vacuum-plated film for immobilizing physiologically active substance; obtained by forming enzyme-immobilizing reagent on inorganic support by vacuum-plating a silane coupling agent and dialdehyde compound  
AN 1987-00562 BIOTECHDS  
PI JP 61176845 8 Aug 1986

L49 ANSWER 112 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Insulated board production for PCB - includes coating silicon steel strip with enzyme frit and heating to melt frit  
PI JP 60263405 A 19851226 (198607)\* JA 5[4]  
JP 04046443 B 19920730 (199235) JA 6  
IN SUZUKI N

L49 ANSWER 113 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Use of silane monomers for molecular imprinting and enzyme entrapment in polysiloxane-coated porous silica  
SO Journal of Chromatography (1985), 347(1), 11-23

AU CODEN: JOCRAM; ISSN: 0021-9673  
AU Glad, Magnus; Norrloew, Olof; Sellergren, Boerje; Siegbahn, Nils; Mosbach,  
Klaus  
AN 1986:48229 HCAPLUS  
DN 104:48229

L49 ANSWER 114 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Production of crosslinked polymer granules having amino gp. - utilising  
silicon cpd. containing amino gp. and hydrolysable gp. in liquid chromatography  
and in enzyme fixing  
PI JP 59179503 A 19841012 (198447)\* JA 8[0]  
IN AOYAMA T; HIRAI O; MUKOYAMA Y

L49 ANSWER 115 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Synthesis of inorganic matrixes for enzyme immobilization by the chemical  
assembly method and a study of their properties  
SO Zhurnal Prikladnoi Khimii (Sankt-Peterburg, Russian Federation) (1984),  
57(6), 1428-30  
CODEN: ZPKHAB; ISSN: 0044-4618  
AU Gimanova, I. M.; Postnov, V. N.  
AN 1984:528771 HCAPLUS  
DN 101:128771

L49 ANSWER 116 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Determination of bile acids with immobilized enzyme on gel-like  
glass formed with silicon tetraethoxide  
SO Bunseki Kagaku (1984), 33(1), 6-11  
CODEN: BNSKAK; ISSN: 0525-1931  
AU Karatani, Hajime; Oka, Syotaro  
AN 1984:99284 HCAPLUS  
DN 100:99284

L49 ANSWER 117 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Purifying proteolytic enzymes by bio-specific sorption - using sorbent  
prepared from amino-silicon cpd., ligand and condensing agent  
PI US 4264738 A 19810428 (198120)\* EN  
IN AKPAROV V K; GAIDA A V; RUDENSKAYA G N; STEPANOV V M

L49 ANSWER 118 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI External building wall protective compsn. - containing scleroprotein-derived  
enzymatically active metallo-protein and pref.  
polysiloxane-forming retention agent polymerisable in  
situ  
PI DE 3030250 A 19810910 (198138)\* DE 16  
FR 2477565 A 19810911 (198142) FR  
ZA 8007380 A 19811008 (198205) EN  
DE 3030250 C 19860626 (198626) DE  
IN DESHAYES E L

L49 ANSWER 119 OF 130 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on  
STN DUPLICATE 24

TI POLY METHYL GLUTAMATE AS A NEW MATRIX FOR COVALENTLY IMMOBILIZED ENZYMES  
PREPARATION AND PROPERTIES OF UREASE EC-3.5.1.5 AND URICASE EC-1.7.3.3.  
SO Biotechnology and Bioengineering, (1980) Vol. 22, No. 6, pp. 1225-1236.  
CODEN: BIBIAU. ISSN: 0006-3592.  
AU MINAMOTO Y [Reprint author]; YUGARI Y  
AN 1980:257907 BIOSIS

L49 ANSWER 120 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Carrier for enzyme immobilisation preparation - by modifying  
silicon-containing

material with aminopropyl-tri:alkoxy-silane and treating the prod. with  
toluylene-di:isocyanate  
PI SU 672203 A 19790708 (198011)\* RU  
IN CHUIKKO A A; FEDORCHENK E I; TERTYKH V A

L49 ANSWER 121 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Selective absorbent for immunological determinations - comprises a water-insoluble polymer matrix e.g. polyacrylamide containing magnetically attracted particles and a selective absorbent  
PI BE 870834 A 19790328 (197914)\* FR  
GB 2005019 A 19790411 (197915) EN  
DE 2841782 A 19790412 (197916) DE  
JP 54090883 A 19790718 (197935) JA  
CA 1112161 A 19811110 (198150) EN  
GB 2005019 B 19820818 (198233) EN  
CH 648127 A 19850228 (198512) DE  
JP 63001546 B 19880113 (198805) JA  
DE 2841782 C 19880721 (198829) DE

L49 ANSWER 122 OF 130 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 25

TI ENZYMATIC CHANGE IN THE QUANTITY OF MOBILE FORMS OF IRON MANGANESE ALUMINUM AND SILICON IN BROWN FOREST SOILS IN BEECH BIO GEOCENOSES.  
SO Gorskiostopanska Nauka, (1979) Vol. 16, No. 6, pp. 46-52.  
CODEN: GONAAR. ISSN: 0017-2286.  
AU MILANOV R [Reprint author]  
AN 1981:186246 BIOSIS

L49 ANSWER 123 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Hydrolysis of a polyalkoxysilane glycerol derivative  
SO Bulletin de la Societe de Pharmacie de Bordeaux (1972), 111(4), 200-10  
CODEN: BSPBAD; ISSN: 0037-9093  
AU Fourtillan, J. B.; Dupin, J. P.; Lemoigne, B.  
AN 1973:511618 HCAPLUS  
DN 79:111618

L49 ANSWER 124 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Silicon-containing material, on whose surface is attached an enzyme-polymer product  
SO Ger. Offen., 39 pp.  
CODEN: GWXXBX  
IN Miller, Robert Everett  
AN 1972:17801 HCAPLUS  
DN 76:17801

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2106215	A	19710819	DE 1971-2106215	19710210
US 3715278	A	19730206	US 1970-10655	19700211
NL 7101679	A	19710813	NL 1971-1679	19710209
BE 762743	A1	19710810	BE 1971-99588	19710210
FR 2083067	A5	19711210	FR 1971-4435	19710210

L49 ANSWER 125 OF 130 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Effects of combined silicon and gibberellic acid on enzyme behavior and sucrose content of immature sugarcane  
SO Proc. Int. Soc. Sugar-Cane Technol. (1969), Meeting Date 1968, Volume 13, 522-31. Editor(s): Liu, Kan-Chih. Publisher: Elsevier Publ. Co., Amsterdam, Neth.  
CODEN: PSSCAF  
AU Alexander, Alex G.  
AN 1970:454844 HCAPLUS  
DN 73:54844

L49 ANSWER 126 OF 130 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
TI INFLUENCE OF VARIABLE MANGANESE AND SILICON ON THE NUTRITION SUGAR PRODUCTION AND ENZYME ACTIVITY OF IMMATURE SUGARCANE-M ENZ STARCH PHOSPHORYLASE ENZ PHOSPHATASES ENZ POLY PHENOL OXIDASE.  
SO Journal of Agriculture of the University of Puerto Rico, (1969) Vol. 53, No. 1, pp. 14-27.  
CODEN: JAUPA8. ISSN: 0041-994X.  
AU SAMUELS G; ALEXANDER A G  
AN 1969:179200 BIOSIS

L49 ANSWER 127 OF 130 HCPLUS COPYRIGHT 2007 ACS on STN  
TI Influence of variable manganese and silicon on the nutrition, sugar production, and enzyme activity of immature sugarcane  
SO Journal of Agriculture of the University of Puerto Rico (1969), 53(1), 6-19  
CODEN: JAUPA8; ISSN: 0041-994X  
AU Samuels, George; Alexander, Alex G.  
AN 1969:46504 HCPLUS  
DN 70:46504

L49 ANSWER 128 OF 130 MEDLINE on STN  
TI [Combination of dimethylpolysiloxane and digestive enzymes in the treatment of marked forms of abdominal meteorism].  
A associacao de dimetilpolisiloxana e enzimas digestivas no tratamento das formas acentuadas de meteorismo abdominal.  
SO Hospital, (1965 Dec) Vol. 68, No. 6, pp. 1385-9.  
Journal code: 9427238. ISSN: 0018-5469.  
AU Ferraz W G; Wafae N  
AN 66142754 MEDLINE

L49 ANSWER 129 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Enzyme-polymer product coated on a silicon - contng material  
PI DE 2106215 A (197134)\* DE  
BE 762743 A (197134) FR  
NL 7101679 A (197135) NL  
JP 46001836 A (197140) JA  
FR 2083067 A (197209) FR  
US 3715278 A (197308) EN

L49 ANSWER 130 OF 130 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Tabletted silicone oil preps for gastrointestinal wind  
PI BE 700694 A (196800)\* FR  
FR 1554642 A (196801) FR  
GB 1154256 A (196801) EN  
ZA 6704007 A (196801) EN

=>  
=> d ab 38,41,55,105

L49 ANSWER 38 OF 130 HCPLUS COPYRIGHT 2007 ACS on STN  
AB For block and graft-copolymer synthesis, two requirements of prepolymers or oligomers are a narrow distribution and a specific mol. weight. These can be easily obtained from bio-catalyst synthesis. Lipase, a biocatalyst, in a low-water content environment, can catalyze both esterification and transesterification reactions. Using Candida rugosa lipase, solution polymerization gave only dimer and trimer products with a narrow distribution.

Immobilization of a sol-gel process to enhance the activity of lipase gave minor products with a higher mol. weight. The major products were still dimer and trimer. Microemulsion polymerization, on the other hand, gave a much better

performance in synthesizing prepolymers since the mol. weight obtained was in the range of 2000 with a narrow distribution product.

L49 ANSWER 41 OF 130 HCPLUS COPYRIGHT 2007 ACS on STN

AB Lipase immobilized on gel fibers comprising cellulose derivs. and multivalent metal alkoxides is useful for manufacture of organic compds. by hydrolysis, esterification, or transesterification. Lipase was dispersed in an acetone solution of cellulose acetate and the dispersion was spun into a solution of Ti(CHMe<sub>2</sub>)<sub>4</sub> to give lipase immobilized on cellulose acetate-Ti gel fibers. A tert-Bu Me ether solution of ( $\pm$ )-1-phenylethanol and vinyl acetate was treated with the immobilized lipase at 30° for 10 h to give optically-active 1-acetoxyethylbenzene with 83% e.e.

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AB The last few decades have seen an explosion in the application of enzymes to organic chemistry, as these biological catalysts have continued to demonstrate their unique synthetic capabilities. Despite this, a key prerequisite for establishing enzymes as standard reagents in synthetic chemistry, specifically the availability of generic technologies providing inexpensive, robust, and reusable heterogeneous biological catalysts, still remains to be fulfilled. Herein, we describe a novel and highly efficient immobilization methodology for one of the most utilitarian classes of biocatalysts, namely, lipases. The procedure is based upon the adsorption of crude and pure Lipases onto poly(hydroxymethylsiloxane), followed by the incorporation of the formed adsorbates into room-temperature vulcanizable silicones, to form biocatalytic composites. This provides hyperactivated catalysts showing activity enhancements of up to 54-fold as compared with the native enzymes, catalytic densities of up to several hundred kilo-units per gram of immobilizate, and high operational activity and stability in aqueous and organic media. The flexibility of silicone polymer chemistry enables the catalytic biocomposites to be prepared with a variety of physicochemistries, and to be fabricated as solid monoliths, sheets of thick films, particulates, and solid foams, thereby allowing the production of tailored catalysts for a variety of applications. The production and properties of a range of lipase-silicone composites are discussed, and the extended performances of selected catalysts are compared with those of the free enzymes and commercial heterogeneous biocatalysts in model synthetic reactions.

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AB The title solids are prepared by treating solids with siloxanes, reacting the siloxanes with spacer compds. (functional group-containing compds.) and further modifying the functional groups of the spacer compds. Heating silica gel with tetramethylcyclotetrasiloxane at 90°, reacting with allyl glycidyl ether in oil bath at 80° for 6 h, and heating with 0.5N H<sub>2</sub>SO<sub>4</sub> in oil bath at 100° gave OH-containing powder, which was packed into a HPLC column showing good separation of benzene-naphthalene-anthracene-2,3-benzanthracene mixture. Other various functionalized powders prepared similarly showed good separation of acids, amines, amino acids, nucleotides and sugars. The powders are useful for cosmetics, separation of enzymes, antibodies, hormones and in EIA and RIA uses.

=> log Y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY SESSION

FULL ESTIMATED COST

393.03

393.24

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

CA SUBSCRIBER PRICE

ENTRY      SESSION  
-2.34      -2.34

STN INTERNATIONAL LOGOFF AT 15:03:42 ON 25 JUN 2007